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MEMORANDAM FOR : Deputy Director (Plans)

PERCUCE

100

: Acting Chief, DPD

SUBJECT

: MANA Sonic Boom Report

- 1. The latest RASA somie been report is attached for information.
- 2. Unfortunately the data are helpful only generally in that they substantiate the trends already ghoun by theory, i.e., decay in boom intensity with altitude and with lateral distance.
- 3. The instrumentation induces considerable spread as you will note in Figure 10, page 26. From careful study it appears this instrumentation spread is of the same order as and tends to muck the spread in data points due to atmospheric effects.
- 4. Without further data not given in the report I cannot explain the difference between predicted values of boom intensity for fighter and bomber, Figures 19 and 20, pages 35 and 39, in view of the similarity of volumetric distribution shown in Figure 3, page 21. I have sketched the CXCART vehicle distribution in red on that page.
- 5. For some strange reason the bomber with pod, which should result in a power volumetric distribution, Figure 3, page 21, seemed to be closer in actual test to predicted values of intensity them without pod which was generally higher than predicted, Figure 20, page 39.
- 6. Another part of the overall sonic borm program is the correlation of psychological effects with measured data of this nature. This will not be complete for some months. Without this we cannot translate readily from the language of pounds per square foot overpressure to human reaction.
- 7. Tentatively from this report CXCART is liable to be heard more than I have hoped.

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Att: As stated

EA/TA/DPD:EPK:hmj (8 January 1962)

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